

B. In the Claims

Please cancel claims 4 to 37 and 41 to 46 without prejudice.

Upon entry of the present amendment, the claims will stand as follows in the present application:

1. (Original) An isolated antimicrobial peptide having an amino acid sequence selected from the group consisting of:

KWKSEFIKKLTSAKKVVTTAKPLALIS	(SEQ ID NO:3);
KWKSEFIKKLTKAACKVVTTAKKPLIV	(SEQ ID NO:4);
KWKKFIKSLTKSAAKTVVKTAKKPLIV	(SEQ ID NO:5);
KWKLFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:6);
KLFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:7);
KWKFFKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:8);
KLWKLFFKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:9);
KWKSEFIKKLTSAKKVTTAAKPLTK	(SEQ ID NO:10);
KWKKFIKKIGIGAVLKVLTTGLPALKLTKK	(SEQ ID NO:11);
KKWKKFIKKIGIGAVLTTPGAKK	(SEQ ID NO:12);
GWGSFFKKAHVKGKHHVGKAALHLYL-NH ₂	(SEQ ID NO:14);
KGWGSFFKKAHVKGKHHVGKAALHLYL	(SEQ ID NO:15);
KGWGSFFKKAHVKGKHHVGKAALHLYL-NH ₂	(SEQ ID NO:16);
ALWKTMLKKAHVKGKHHVGKAALHLYL-NH ₂	(SEQ ID NO:17);
SIGSAFKKAHVKGKHHVGKAALHLYL-NH ₂	(SEQ ID NO:18);
GWGSFFKKAHVKGKHHVGKAALGAAARRRK	(SEQ ID NO:19);
ALWKTMLKKAHVKGKHHVGKAALGAAARRRK	(SEQ ID NO:20); and
SIGSAFKKAHVKGKHHVGKAALGAAARRRK	(SEQ ID NO:21);

and analogs, derivatives, amidated variations and conservative variations thereof.

2. (Original) An isolated polynucleotide which encodes a peptide of claim 1.
3. (Original) An isolated polynucleotide which encodes a peptide selected from the group consisting of:

KWKSFIIKKLTSAAKKVVTAKPLALIS	(SEQ ID NO:3);
KWKSFIIKKLTKAARKVVTAKKPLIV	(SEQ ID NO:4);
KWKKFIKSLTKSAAKTVVKTAKKPLIV	(SEQ ID NO:5);
KWKLFFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:6);
KLFFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:7);
KWKFFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:8);
KLWKLFFKKIGIGAVLKVLKVLTTGLPALKLTLK	(SEQ ID NO:9);
KWKSFIIKKLTSAAKKVTTAAKPLTK	(SEQ ID NO:10);
KWKKFIKKIGIGAVLKVLTTGLPALKLTKK	(SEQ ID NO:11);
KKWKKFIKKIGIGAVLTPGAKK	(SEQ ID NO:12);
GWGSFFKKAHVGKHVGKAALTHYL	(SEQ ID NO:14);
KGWGSFFKKAHVGKHVGKAALTHYL	(SEQ ID NO:15);
ALWKTMLKKAHVGKHVGKAALTHYL	(SEQ ID NO:17);
SIGSAFKKAHVGKHVGKAALTHYL	(SEQ ID NO:18);
GWGSFFKKAHVGKHVGKAALGAAARRRK	(SEQ ID NO:19);
ALWKTMLKKAHVGKHVGKAALGAAARRRK	(SEQ ID NO:20); and
SIGSAFKKAHVGKHVGKAALGAAARRRK	(SEQ ID NO:21).

Claims 4-37 (cancelled).

38. (Original) A method of inhibiting the growth of bacteria comprising contacting the bacteria with an inhibiting effective amount of a peptide having an amino acid sequence selected from the group consisting of:

GWGSFFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:14);

KGWGSFFKKAAHVGKHHVGKAALATHYL (SEQ ID NO:15);

KGWGSFFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:16);

ALWKTMLKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:17);

SIGSAFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:18);

GWGSFFKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:19);

ALWKTMLKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:20);

SIGSAFKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:21);

and analogs, derivatives, amidated variations and conservative variations thereof.

39. (Original) An isolated polynucleotide which encodes a peptide of claim 38.

40. (Original) An isolated polynucleotide which encodes a peptide selected from the group consisting of:

GWGSFFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:14);

KGWGSFFKKAAHVGKHHVGKAALATHYL (SEQ ID NO:15);

KGWGSFFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:16);

ALWKTMLKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:17);

SIGSAFKKAAHVGKHHVGKAALATHYL-NH₂ (SEQ ID NO:18);

GWGSFFKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:19);

ALWKTMLKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:20);

SIGSAFKKAAHVGKHHVGKAALGAAARRRK (SEQ ID NO:21).

Claims 41-46 (cancelled).